

FIG. 1



FIG. 2A



FIG. 2B



FIG. 3A



FIG. 3B

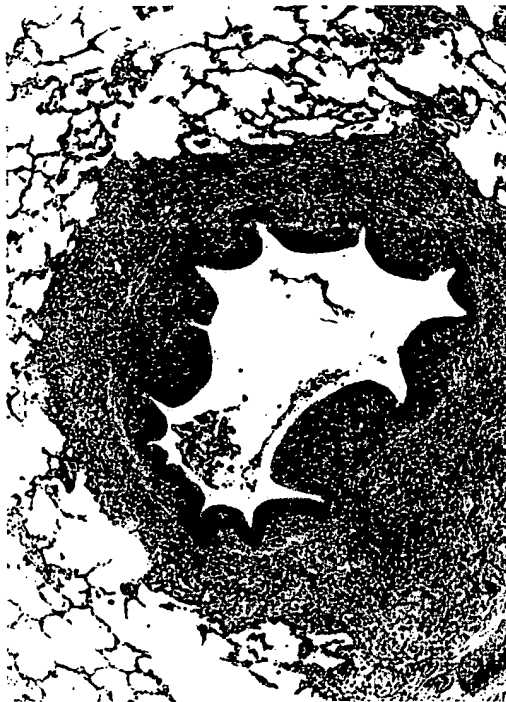


FIG. 3C

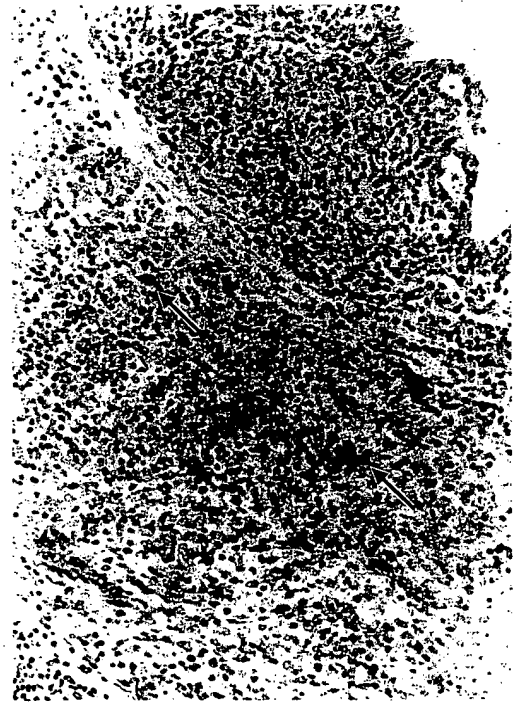


FIG. 3D



FIG. 4A



FIG. 4B

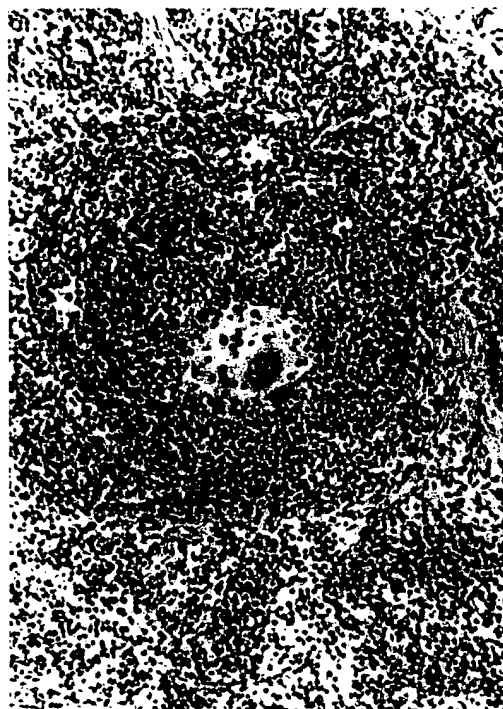


FIG. 4C

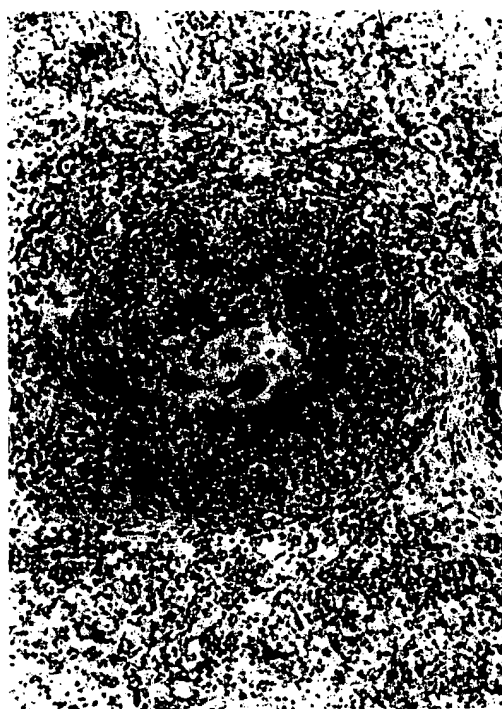


FIG. 4D

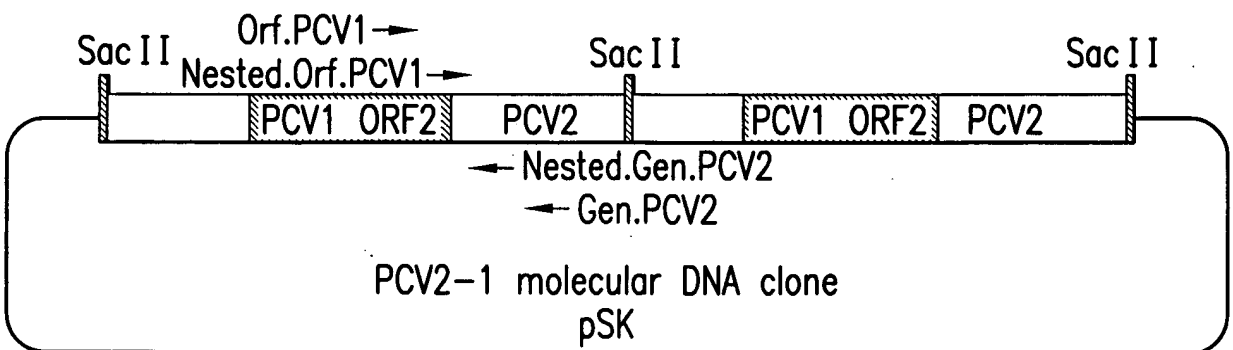
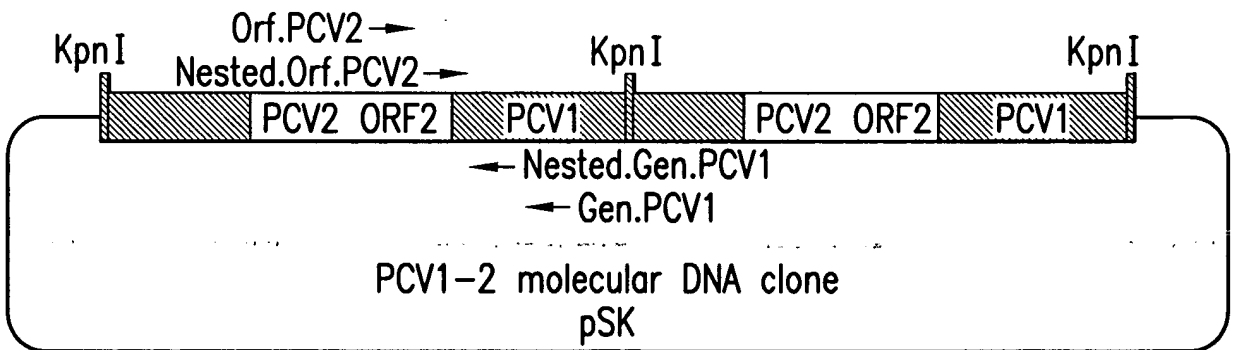
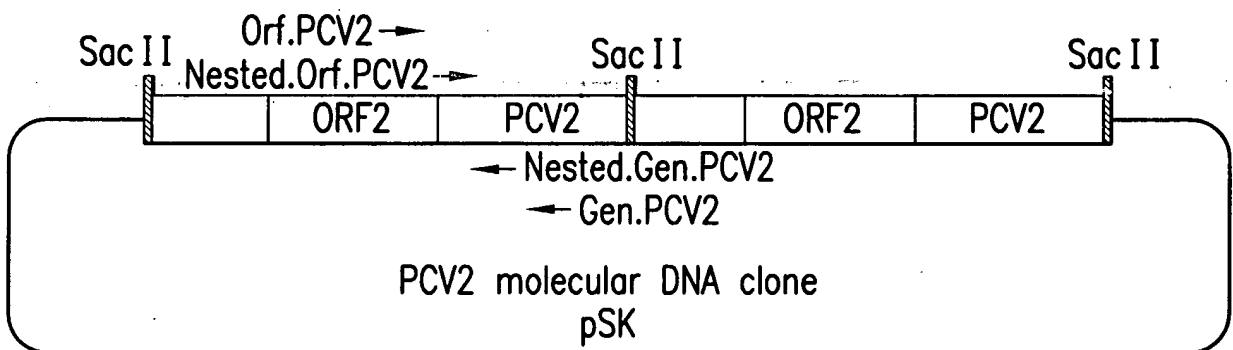
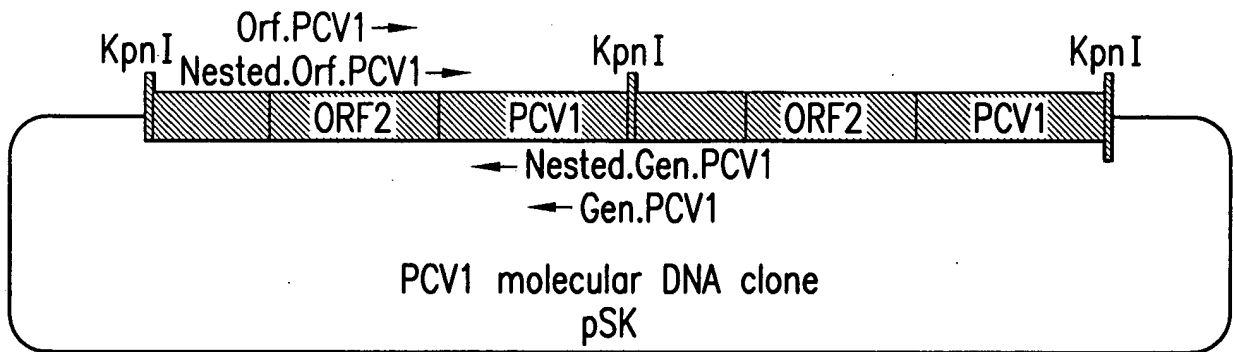


FIG.6

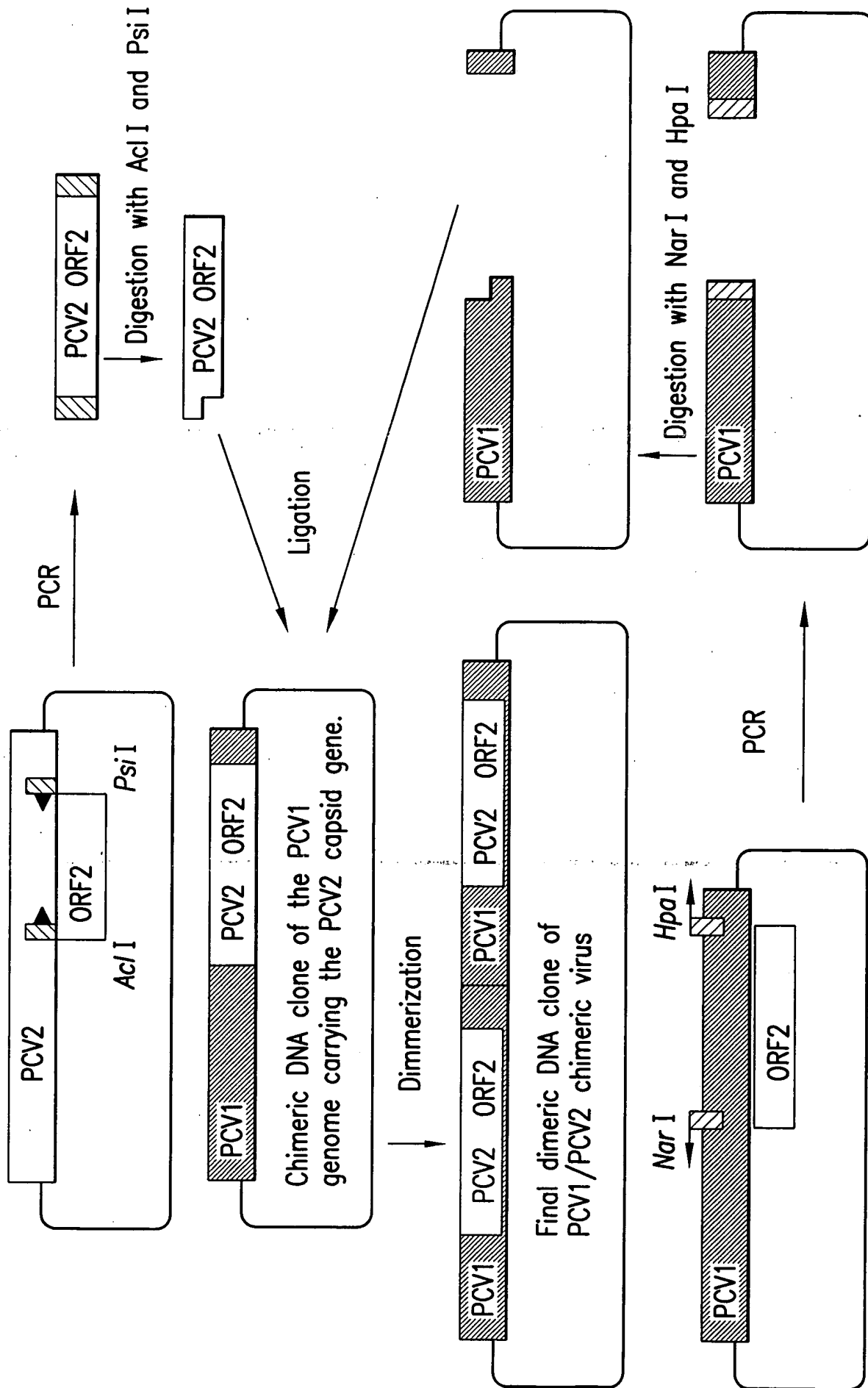


FIG.5

IFA WITH
ANTI-PCV1 ORF2

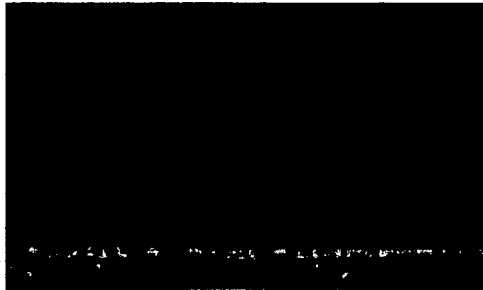


FIG.7A

IFA WITH
ANTI-PCV2

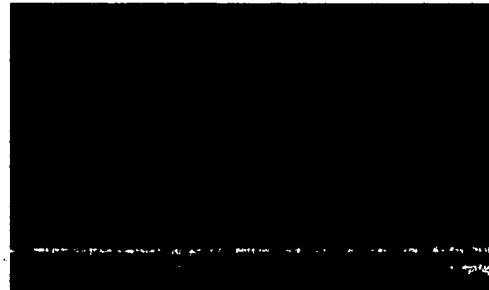


FIG.7B

IFA WITH
ANTI-PCV1 ORF2



FIG.7C

IFA WITH
ANTI-PCV2



FIG.7D

IFA WITH
ANTI-PCV1 ORF2

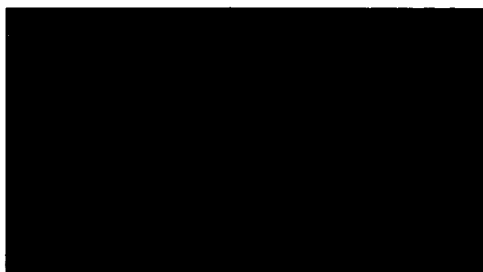


FIG.7E

IFA WITH
ANTI-PCV2

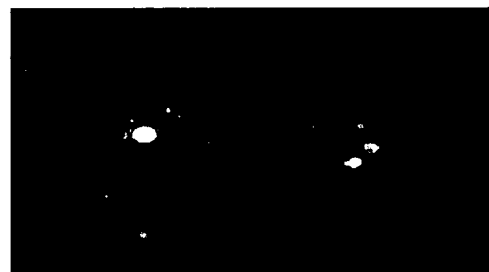


FIG.7F

IFA WITH
ANTI-PCV1 ORF2

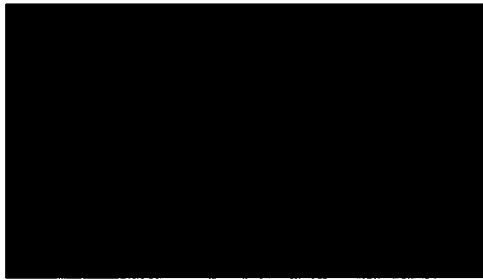


FIG. 7G

IFA WITH
ANTI-PCV2

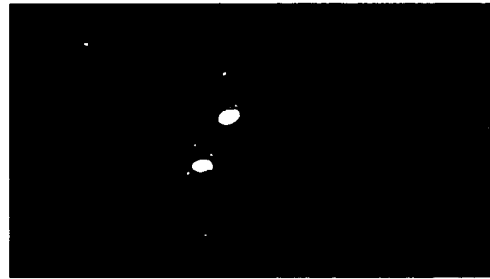


FIG. 7H

IFA WITH
ANTI-PCV1 ORF2

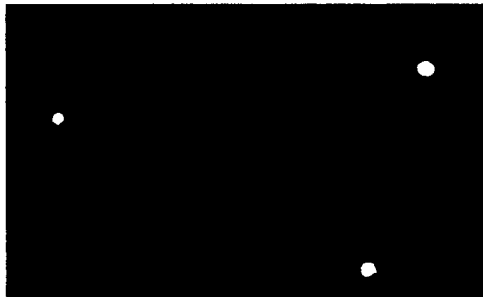


FIG. 7I

IFA WITH
ANTI-PCV2



FIG. 7J

AAATTTCTGACAAACGTTACAGGGTGCTGCTCTGCAACGGTCACCAGACTCCCGCTCTCC
AACAAGGTACTCACAGCAGTAGACAGGTCACTCCGTTGTCCTTGAGATCGAGGAGCTCCA
CATTCAATAAGTAAGTTGCCTTCTTTACTGCAATATTCTTTATTCTGCTGATCAGTTCCT
TTGGCTTTCTCGATATGGCAGCGGGCACCCAAATACCACTTCACTTTATTAAGTTTGC
TTCTTCACAAAATTAGCGAACCCCTGGAGGTGAGGTGTTGTCCTTCCTCATTACCCCTCC
TCGCCAACAAATAAAATAATCAAATAGGGAGATTGGGAGCTCCCGTATTTTCTTGCGCTCG
TCTTCGGAAGGATTATTACAGCGTGAACACCCACCTTTTATGTGGTTGGGGTCCGCTTCTT
CCATTCTTCTTGCTGGGCATGTTGCTGCTGAGGTGCTGCCGAGGTGCTGCCGCTGCCGAA
GTGCGCTGGTAATACTTACAGCGCACTTCTTTCGTTTTTCAGCTATGACGTATCCAAGGAG
GCGTTACCGCAGAAGAAGACACCGCCCCCGCAGCCATCTTGCCAGATCCTCCGCCGCCG
CCCCTGGCTCGTCCACCCCGCCACCGCTACCGTTGGAGAAGGAAAAATGGCATCTTCAA
CACCCGCCTCTCCCGCACCTTCGGATATACTGTCAAGGCTACCACAGTCAGAACGCCCTC
CTGGGCGGTGGACATGATGAGATTTAATATTGACGACTTTGTTCCCCCGGGAGGGGGGAC
CAACAAAATCTCTATACCCCTTTGAATACTACAGAATAAGAAAGGTTAAGTTGAATTCTG
GCCCTGCTCCCCCATCACCCAGGGTGATAGGGGAGTGGGCTCCACTGCTGTTATTCTAGA
TGATAACTTTGTAACAAAGGCCACAGCCCTAACCTATGACCCATATGTAACTACTCCTC
CCGCCATACAATCCCCCAACCTTCTCCTACCACTCCCGTTACTTCACACCCAAACCTGT
TCTTGACTCCACCATTGATTACTTCCAACCAAATAACAAAAGGAATCAGCTTTGGATGAG
GCTACAAACCTCTAGAAATGTGGACCACGTAGGCCTCGGCACTGCGTTCGAAAACAGTAT
ATACGACCAGGACTACAATATCCGTGTAACCATGTATGTACAATTCAGAGAATTTAATCT
TAAAGACCCCCCACTTAAACCTAAATGAATAATAAAAACCATTACGAAGTGATAAAAAA
GACTCAGTAATTTATTTTCATATGGAAATTCAGGGCATGGGGGGGAAAGGGTGACGAACTG
GCCCCCTTCCTCCGTGGATTGTTCTGTAGCATTCTTCCAAAATACCAAGAAAGTAATCCT
CCGATAGAGAGCTTCTACAGCTGGGACAGCAGTTGAGGAGTACCATTCCAACGGGGTCTG
ATTGCTGGTAATCAGAATACTGCGGGCCAAAAAAGGTACAGTTCACCTTTAGTCTCTAC
AGTCAATGGATATCGATCACACAGTCTCAGTAGATCATCCACGGCAGCCAGCCATAAAA
GTCATCAATAACAACCACTTCTTCACCATGGTAACCATCCACCACTTGTTCCTAGGTGG
TTTCCAGTATGTGGTTTCCGGGTCTGCAAAATTAGCAGCCCATTTGCTTTTACCACACCC
AGGTGGCCCCACAATGACGTGTACATTGGTCTTCCAATCACGCTTCTGCATTTTCCCGCT
CACTTTCAAAAGTTCAGCCAGCCCGCGG

FIG.8

GGTACCTCCGTGGATTGTTCTCCAGCAGTCTTCCAAAATTGCAAAGTAGTAATCCTCCGA
TAGAGAGCTTCTACAGCTGGGACAGCAGTTGAGGAGTACCATTCTGGGGGGCCTGATTG
CTGGTAATCAAATACTGCGGGCCAAAAAGGAACAGTACCCCTTTAGTCTCTACAGTC
AATGGATACCGGTCACACAGTCTCAGTAGATCATCCCAAGGTAACCAGCCATAAAAATCA
TCCAAAACAACAACTTCTTCTCCATGATATCCATCCCACCACTTATTTCTACTAGGCTTC
CAGTAGGTGTCCCTAGGCTCAGCAAAATTACGGGCCCCTGGCTCTTCCCACAACCGGGC
GGGCCCCACTATGACGTGTACAGCTGTCTTCCAATCACGCTGCTGCATCTTCCCGCTCACT
TTCAAAAGTTTCAGCCAGCCCCGCGGAAATTTCTCACATACGTTACAGGAACTGCTCGGCT
ACAGTCACCAAAGACCCCGTCTCCAAAAGGGTACTCACAGCAGTAGACAGGTGCTGCGC
TCCCCCTGGTTCCGCGGAGCTCCACACTCGATAAGTATGTGGCCTTCTTTACTGCAGTAT
TCTTTATTCTGCTGGTCGGTTCCCTTTCGCTTTCTCGATGTGGCAGCGGGCACAAAATAC
CACTTCACCTTGTTAAAAGTCTGCTTCTTAGCAAAATTCGCAACCCCTGGAGGTGAGGA
GTTCTACCCTCTTCCAAACCTTCCTCGCCACAAACAAAATAATCAAAAAGGGAGATTGGA
AGCTCCCGTATTTTGTCTTCTCCTCCTCGGAAGGATTATTAAGGGTGAACACCCACCTC
TTATGGGGTTGCGGGCCGCTTTTCTTGCTTGGCATTTCCTACTGACGCTGCCGAGGTGCTG
CCGCTGCCGAAGTGCGCTGGTAATACTACAGCAGCGCACTTCTTTCACCTTTTATAGGATG
ACGTATCCAAGGAGGCGTTACCGCAGAAGAAGACACCGCCCCCGCAGCCATCTTGGCCAG
ATCCTCCGCGCGCGCCCTGGCTCGTCCACCCCGCCACCGCTACCGTTGGAGAAGGAAA
AATGGCATCTTCAACACCCGCTCTCCCGCACCTTCGGATATACTGTCAAGGCTACCACA
GTCAGAACGCCCTCCTGGGCGGTGGACATGATGAGATTTAATATTGACGACTTTGTTCCC
CCGGGAGGGGGGACCAACAAAATCTCTATACCCTTTGAATACTACAGAATAAGAAAGGTT
AAGGTTGAATTCTGGCCCTGCTCCCCCATCACCCAGGGTGATAGGGGAGTGGGCTCCACT
GCTGTTATTCTAGATGATAACTTTGTAACAAAGGCCACAGCCCTAACCTATGACCCATAT
GTAACTACTCCTCCCGCCATACAATCCCCCAACCTTCTCCTACCACTCCCGTTACTTC
ACACCCAAACCTGTTCTTGACTCCACCATTGATTACTTCCAACCAAATAACAAAAGGAAT
CAGCTTTGGATGAGGCTACAAACCTCTAGAAATGTGGACCACGTAGGCCTCGGCACTGCG
TTCGAAAACAGTATATACGACCAGGACTACAATATCCGTGTAACCATGTATGTACAATTC
AGAGAATTTAATCTTAAAGACCCCCCACTTAAACCCTAAATGAATAAAAAATAAAACCAT
TACGATGTGATAACAAAAAGACTCAGTAATTTATTTTATATGGGAAAAGGGCACAGGGT
GGGTCCACTGCTTCAAATCGGCCTTCGGGTACC

FIG.9

ATGACGTATCCAAGGAGGCGTTACCGCAGAAGAAGACACCGCCCCCGCAGCCATCTTGGC
CAGATCCTCCGCCGCCGCCCTGGCTCGTCCACCCCCGCCACCGCTACCGTTGGAGAAGG
AAAAATGGCATCTTCAACACCCGCCTCTCCCGCACCTTCGGATATACTGTCAAGGCTACC
ACAGTCAGAACGCCCTCCTGGGCGGTGGACATGATGAGATTTAATATTGACGACTTTGTT
CCCCGGGAGGGGGGACCAACAAAATCTCTATACCCTTTGAATACTACAGAATAAGAAAG
GTTAAGGTTGAATTCTGGCCCTGCTCCCCATCACCCAGGGTGATAGGGGAGTGGGCTCC
ACTGCTGTTATTCTAGATGATAACTTTGTAACAAAGGCCACAGCCCTAACCTATGACCCA
TATGTAAACTACTCCTCCCGCCATACAATCCCCAACCCTTCTCCTACCACTCCCGTTAC
TTCACACCCAAACCTGTTCTTGACTCCACCATTGATTACTTCCAACCAAATAACAAAAGG
AATCAGCTTTGGATGAGGCTACAAACCTCTAGAAATGTGGACCACGTAGGCCTCGGCACT
GCGTTCGAAAACAGTATATACGACCAGGACTACAATATCCGTGTAACCATGTATGTACAA
TTCAGAGAATTTAATCTTAAAGACCCCCCACTTAAACCCTAA

FIG.10

MTYPRRRYRRRRHRPRSHLGQILRRRPWLHPRHRYRWRKNGIFNTRLSTFGYTVKAT
TVRTPSWAVDMMRFNIDDFVPPGGGTNKISIPFEYYRIRKVKVEFWPCSPITQGDRGVGS
TAVILDDNFVTKATALTYDPYVNYSSRHTIPQPFSYHSRYFTPKPVLDSTIDYFQPNNKR
NQLWMRLQTSRNV DHVGLGTAFENSIYDQDYNIRVTMYVQFREFNLKDPPLKP*

*translation termination codon

FIG.11

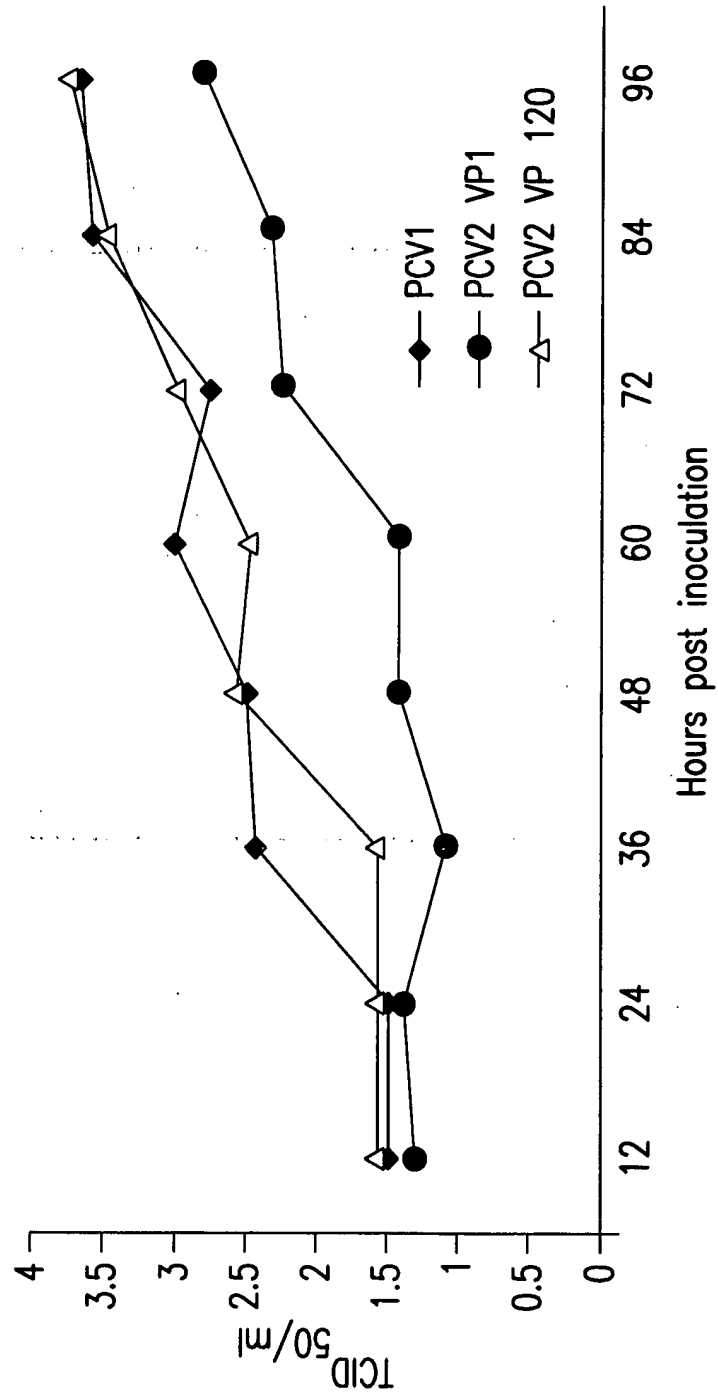


FIG.12

110	191	
P	R	VP 0
A	R	VP 30
A	R	VP 60
A	R	VP 90
A	S	VP 120
P	R	PCV2: US & Canada
P	G/A	PCV2: Canada, France, Spain, Germany & Taiwan
P	T	PCV1

FIG.13

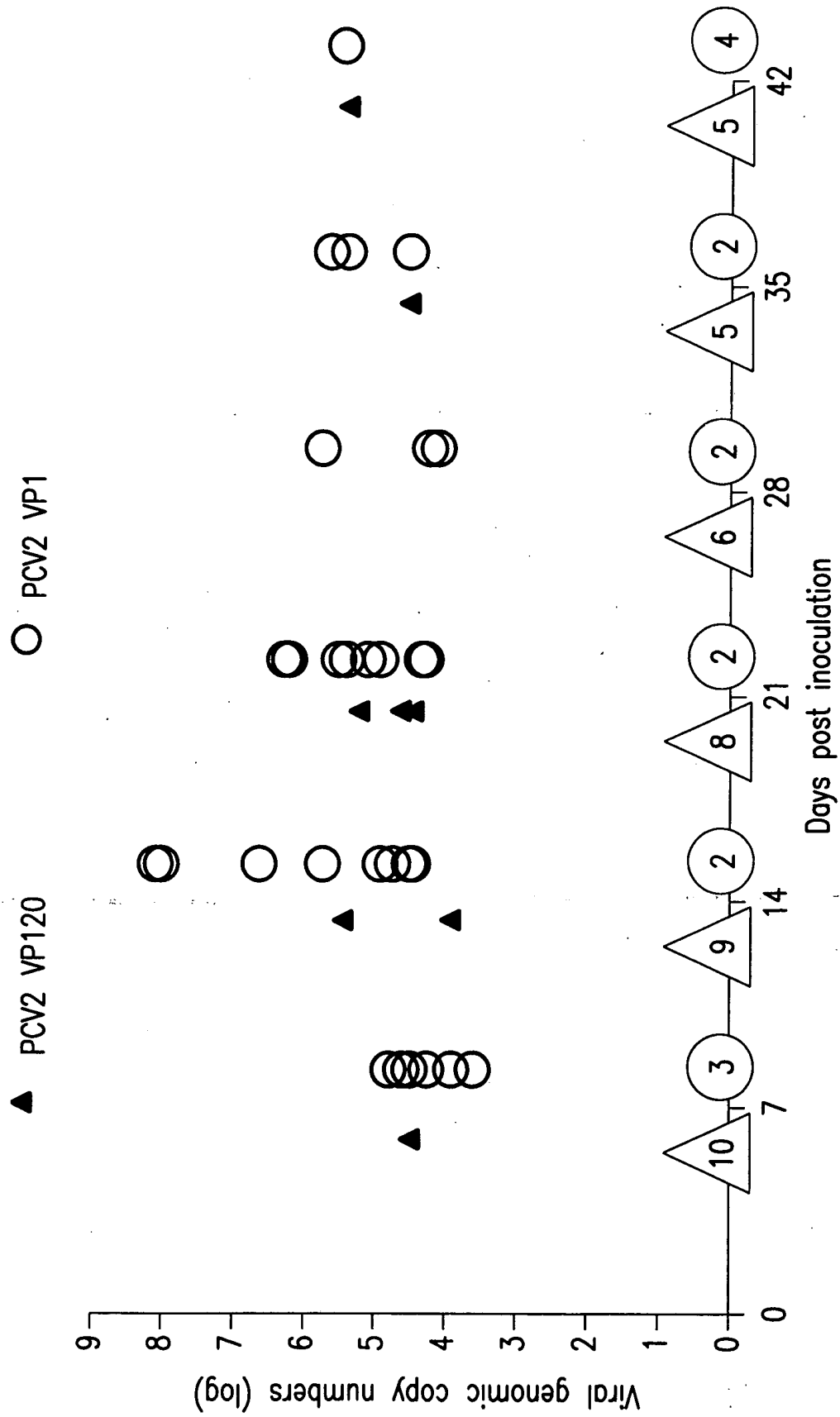


FIG.14

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